

ABSTRACT OF THE DISCLOSURE

The present invention provides a multi-phase sampling system in which each sampler samples a transition and data of an incoming data signal. By enabling each sampler to sample a transition in addition to data of the incoming data signal, phase errors associated with each of the samplers can be determined. The phase error determinations provide valuable information that can be used 1) to correct the phase errors of the system sampling the incoming data signal, 2) to correct the phase errors of a multi-phase system that is transmitting the incoming data signal, and/or 3) to correct the phase errors of both a multi-phase system that is sampling an incoming data signal and of a multi-phase system that is transmitting the data signal.